

CLAIMS

- sub
A1
1. Solid pulverulent reactive composition for the purification of a gas, comprising sodium bicarbonate and a caking inhibitor for sodium bicarbonate, characterized in that the inhibitor comprises lignite coke and/or a magnesium compound comprising magnesium (hydr)oxide.
 2. Composition according to Claim 1, characterized in that it is substantially devoid of silica.
 3. Composition according to Claim 1 or 2, characterized in that the magnesium compound comprises basic magnesium carbonate.
 4. Composition according to any one of Claims 1 to 3, characterized in that it comprises at least 90% by weight of sodium bicarbonate and in that its content by weight of inhibitor is greater than 0.5% of the weight of sodium bicarbonate.
 5. Composition according to Claim 4, characterized in that, in the case where the inhibitor comprises a magnesium compound, the latter is present in an amount by weight at least equal to 2% of the weight of sodium bicarbonate.
 6. Composition according to Claim 4, characterized in that, in the case where the inhibitor comprises lignite coke, the latter is present in an amount at least equal to 5% of the weight of sodium bicarbonate.
 7. Process for the purification of a gas, according to which a reactive composition comprising sodium bicarbonate is introduced into the gas and the gas is subjected to removal of dust, characterized in that the reactive composition is substantially devoid of silica.
 8. Process according to Claim 7, characterized in that the removal of dust comprises filtration through a filter cloth.
 9. Process according to Claim 7 or 8, characterized in that the reactive composition is in accordance with any one of Claims 2 to 6.

Claim 7

8

10. Process according to ~~any one of Claims 7 to 9,~~
for the purification of a gas from at least one
contaminant selected from hydrogen chloride, hydrogen
fluoride, sulphur oxides, nitrogen oxides, dioxins and
5 furans.

Add C6 >

Add D3 >

Add E3 >